**COVID-19 using Cognos**

**Empathize and Understand the Problem:**

Understanding the problem and its context is crucial. In this case, analyzing COVID-19 cases and deaths data in the EU/EEA region is important to gain insights into the pandemic's impact. The following considerations are important:

1. \*\*Context\*\*: The COVID-19 pandemic has had a significant impact worldwide, including the EU/EEA region. Analyzing this data can help monitor and assess the situation.

2. \*\*Importance\*\*: Understanding the mean values and standard deviations of cases and deaths is vital for assessing the severity and spread of the virus in different countries within the EU/EEA.

**Defining Clear Objectives:**

Objective 1: \*\*Compare Mean Values\*\*: Compare the mean daily COVID-19 cases and deaths across EU/EEA countries.

Objective 2: \*\*Contrast Standard Deviations\*\*: Contrast the standard deviations of daily COVID-19 cases and deaths across EU/EEA countries.

**Ideation and Analysis Approach:**

Data Collection: Collect COVID-19 cases and deaths data for EU/EEA countries from reliable sources, such as government health agencies or international organizations.

Data Pre-processing: Clean and preprocess the data, handling missing values, outliers, and data quality issues.

Data Analysis: Use statistical analysis techniques to calculate the mean and standard deviation values for cases and deaths per day for each country.

Visualization: Design relevant visualizations using IBM Cognos to present the comparative analysis results.

Insights Generation: Derive insights from the data, such as identifying countries with higher variability or trends in cases and deaths.

**Prototype and Visualization Selection:**

IBM Cognos for visualization and reporting.

Bar charts or line graphs to compare mean values of cases and deaths.

Error bars or box plots to contrast standard deviations.

Maps to visualize geographical distribution.

Time series charts to show trends over time.

**Build and Implement:**

Develop the full data analysis and visualization pipeline using IBM Cognos.

**Test and Iterate:**

Continuously test and refine the analysis and visualizations based on feedback and new insights.

**Deliver Insights:**

Present the findings and insights clearly, highlighting variations in COVID-19 cases and deaths across EU/EEA countries. Use visualizations to communicate mean values, standard deviations, and geographical patterns to facilitate better understanding and decision-making

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